

MBR540 SERIES

VOLTAGE	40 to 200 Volt	CURRENT	5 Ampere	DO-201AD	Unit : inch(mm
FEATURES					
Epitaxial Cor	struction				0.052(1.3)
Guard Ring D	ie Construction for Tran	sient Protection		- N	0.048(1.2)
• Low Power L	oss, High Efficiency			1.0(25.4)MIN	
• High Surge C	apability			1.0(2)	
High Current	Capability and Low Forv	vard Voltage Drop			
Surge Overlo	ad Rating to 150A Peak				
• For Use in Lo	w Voltage, High Freque	ency Inverters, Free	Wheeling,	5)	
and Polarity	Protection Applications			0.375(9.5) 0.285(7.2)	
Lead free in c	compliance with EU Rol-	IS 2011/65/EU dired	ctive	0.0	
MECHANICA	AL DATA			<u> </u>	0.210(5.3)
• Case: DO-20	1AD Molded plastic			Z N	0.188(4.8)
• Terminals: Ax	kial leads, solderable pe	er MIL-STD-750,Me	ethod 2026	.0(25.4)MIN	
Polarity: Colo	r band denotes cathode	e 📕		1.0(2	
• Weight: 0.040	02 ounces, 1.142 grams	;			
		0			
		Cathode	Anode		

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

PARAMETER			MBR540	MBR545	MBR550	MBR560	MBR580	MBR590	MBR5100	MBR5150	MBR5200	UNITS
Maximum Recurrent Peak Reverse Voltage			40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage			28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage			40	45	50	60	80	90	100	150	200	V
Average Rectified Output Current (See Figure 1)			5							А		
Non-Repetitive Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load			150							A		
Power Dissipation			2.5						W			
Forward Voltage at 5A (Notes 3)			0.1	0.7 0.74 0.8 0.9			.9	V				
	T_=25°C		0.05							mA		
Maximum DC Reverse Current at Rated DC Blocking Voltage (Notes 4)	T_=100°C	I _R		10			-					mA
	T_=125°C		-			5			1		mA	
Typical Thermal Resistance (Notes 2) (Notes 1) (Notes 1)			50 15 12						°C / W			
Typical Junction Capacitance (V _R =4V,f=1MHz)			250 150				рF					
Operating Junction and Storage Temperature Range			-55 to +150 -65 to +150					°C				

NOTES :

1. Measured at ambient temperature at a distance of 9.5mm from the case

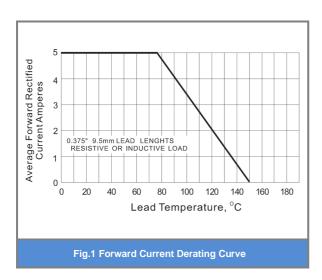
2. Minimum Pad Area

3. Pulse test : 300 μs pulse width, 1% duty cycle

4.Short duration pulse test used to minimize self-heating effect.

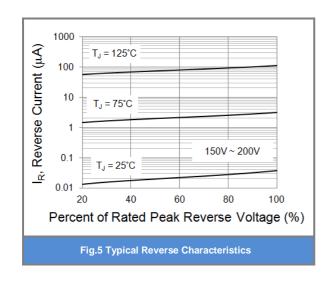


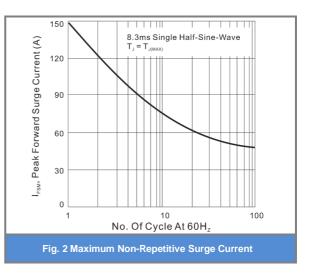
MBR540 SERIES



10000 T_J = 125°C Reverse Current (µA) 1000 T_J = 75°C 100 10 T_J = 25°C 1 40V~60V <u>ŕ</u> 0.1 20 40 60 80 100 Percent of Rated Peak Reverse Voltage (%)

Fig.3 Typical Reverse Characteristics





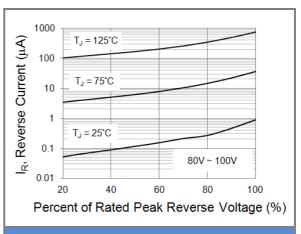
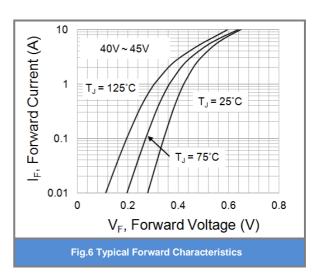
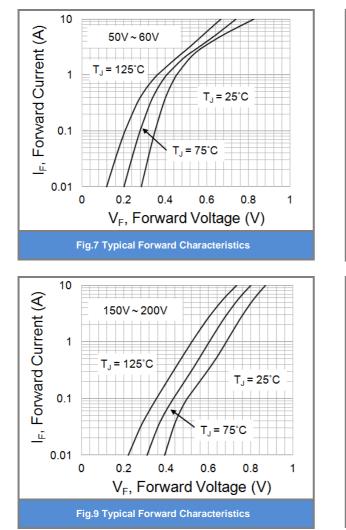


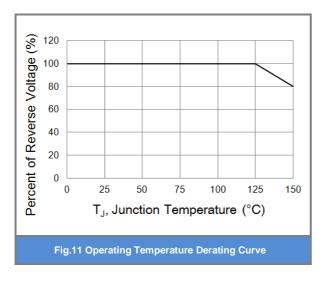
Fig.4 Typical Reverse Characteristics

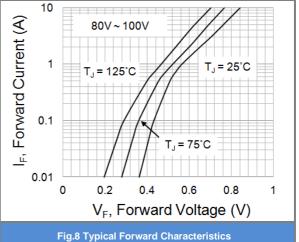


TYPICAL CHARACTERISTIC CURVES

MBR540 SERIES







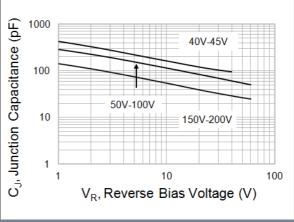


Fig.10 Typical Junction Capacitance





Part No_packing code_Version

MBR540_AY_00001 MBR540_AY_10001 MBR540_B0_00001 MBR540_B0_10001 MBR540_R2_00001 MBR540_R2_10001

For example :

RB500V-40_R2_00001

Part No.

Serial number

• Version code means HF

- Packing size code means 13"
- Packing type means T/R

Packing Code XX					Version Code XXXXX				
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code			
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number			
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number			
Bulk Packing (B/P)	В	13"	2						
Tube Packing (T/P)	т	26mm	X						
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y						
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U						
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D						





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Schottky Diodes & Rectifiers category:

Click to view products by Panjit manufacturer:

Other Similar products are found below :

MA4E2039 D1FH3-5063 MBR0530L-TP MBR10100CT-BP MBR1545CT MMBD301M3T5G RB160M-50TR RB551V-30 BAS16E6433HTMA1 BAT 54-02LRH E6327 NSR05F40QNXT5G JANS1N6640 SB07-03C-TB-H SB1003M3-TL-W SK310-T SK32A-LTP SK34B-TP SS3003CH-TL-E GA01SHT18 CRS10I30A(TE85L,QM MA4E2501L-1290 MBRB30H30CT-1G SB007-03C-TB-E SK32A-TP SK33B-TP SK38B-TP NRVBM120LT1G NTE505 NTSB30U100CT-1G SS15E-TP VS-6CWQ10FNHM3 ACDBA1100LR-HF ACDBA1200-HF ACDBA140-HF ACDBA2100-HF ACDBA3100-HF CDBQC0530L-HF CDBQC0240LR-HF ACDBA260LR-HF ACDBA1100-HF SK310B-TP MA4E2502L-1246 MA4E2502H-1246 NRVBM120ET1G NSR01L30MXT5G SB560 PMAD1108-LF SD103ATW-TP 1N5819T-G PDS1040Q-13